

AMENDMENTS

Please amend claims 1, 8, and 16 as follows:

1. (Amended) A compound represented by structure I

$$R^{2}$$
 R^{1}
 R^{2}
 R^{3}
 R^{4}
 R^{5}
 R^{6}
 R^{8}
 R^{1}
 R^{1}
 R^{1}
 R^{2}
 R^{3}
 R^{4}
 R^{1}
 R^{5}
 R^{6}

P

wherein

R is an alkyl group, an alkenyl group, an alkynyl group, an aryl group, or heteroaryl group;

R¹ is independently -H, -OH or -O-Pg; R² is -H, -CH₃, -NH₂, or -NH-Pg;

R³ is -H, -CH₃ -CH₂CONH₂, -CH₂CONH-Pg, -CH₂CH₂NH₂, or-CH₂CH₂NH-Pg;

R⁵ is -OH, -OSO₃H, or -OPO₂HR^a, where R^a is hydroxy, C₁-C₆ alkyl, C₁-C₆

alkoxy, phenyl, phenoxy, p-halophenyl, p-halophenoxy, p-nitrophenyl, p-nitrophenoxy, benzyl, benzyloxy, p-halobenzyl, p-halobenzyloxy, p-nitrobenzyl, or p-nitrobenzyloxy;

R⁶ is -H, -OH, or -OSO₃H; R⁷ is -H or -CH₃; R⁴ and R⁸ are independently, hydrogen, or hydroxy and at least one of R⁴ and R⁸ is a sugar moiety of the formula

$$R^9$$
 R^9
 R^9
 R^9
 R^9
 R^9
 R^9
 R^9

where R⁹ is independently -H, -OH, -N₃, -O-Pg, -NH₂, -NH-Pg, -OPO₂R^a, or a second sugar moiety consisting of one to three sugar units selected from the group consisting of

$$R^{9b} \xrightarrow{R^{9a}} R^{9a}$$

$$R^{9a} \xrightarrow{R^{9a}} R^{9a}$$

$$R^{9a} \xrightarrow{R^{9a}} R^{9a}$$

$$R^{9a} \xrightarrow{R^{9a}} R^{9a}$$

$$R^{9a} \xrightarrow{R^{9a}} R^{9a}$$

and mixtures thereof, wherein R^{9a} is -H, -OH, -N₃, -NH₂, -O-Pg, or -NH-Pg, R^{9b} is -OPO₂R^a, -OSO₃H, -H, -NH₂, -OH, -O-Pg, or -NH-Pg, R^{9c} is -CH₃, -CH₂OH, -CH₂N₃, -CH₂OSO₃H, -CH₂NH-Pg, -CH₂O-Pg, -CO₂H, or -CO₂-Pg, where R^a is as defined above,

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and no more than one R⁹ is represented by said second sugar moiety; and each Pg is independently a protecting group; or a pharmaceutically acceptable salt, ester, hydrate, or solvate thereof.

8. (Amended) A method of inhibiting fungal activity comprising administering to a recipient in need of such inhibition an effective amount of a compound represented by structure I:

$$R^{2}$$
 R^{1}
 R^{2}
 R^{3}
 R^{3}
 R^{4}
 R^{4}
 R^{5}
 R^{5}

hv

wherein R is an alkyl group, an alkenyl group, an alkynyl group, an aryl group, or heteroaryl group; R¹ is independently -H, -OH or -O-Pg; R² is -H, -CH₃, -NH₂, or -NH-Pg; R³ is -H, -CH₃ -CH₂CONH₂, -CH₂CONH-Pg, -CH₂CH₂NH₂, or -CH₂CH₂NH-Pg; R⁵ is -OH, -OSO₃H, or -OPO₂HR^a, where R^a is hydroxy, C₁-C₆ alkyl, C₁-C₆ alkoxy, phenyl, phenoxy, p-halophenyl, p-halophenoxy, p-nitrophenoxy, benzyl,

benzyloxy, p-halobenzyl, p-halobenzyloxy, p-nitrobenzyl, or p-nitrobenzyloxy; R^6 is -H, -OH, or -OSO₃H; R^7 is -H or -CH₃; R^4 and R^8 are independently, hydrogen, or hydroxy and at least one of R^4 and R^8 is a sugar moiety of the formula

$$R^9$$
 R^9
 R^9
 R^9
 R^9
 R^9
 R^9
 R^9

where R⁹ is independently -H, -OH, -N₃, -O-Pg, -NH₂, -NH-Pg, -OPO₂R^a, or a second sugar moiety consisting of one to three sugar units selected from the group consisting of

by

and mixtures thereof, wherein R^{9a} is -H, -OH, -N₃, -NH₂, -O-Pg, or -NH-Pg, R^{9b} is -OPO₂R^a, -OSO₃H, -H, -NH₂, -OH, -O-Pg, or -NH-Pg, R^{9c} is -CH₃, -CH₂OH, -CH₂N₃, -CH₂OSO₃H, -CH₂NH-Pg, -CH₂O-Pg, -CO₂H, or -CO₂-Pg, where R^a is as defined above,

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and no more than one R⁹ is represented by said second sugar moiety; and each Pg is independently a protecting group; or a pharmaceutically acceptable salt, ester, hydrate, or solvate thereof.

16. (Amended) A method of inhibiting parasitic activity comprising administering to a recipient in need of such inhibition an effective amount of a compound represented by structure I:

$$R^{2}$$
 R^{1}
 R^{2}
 R^{3}
 R^{4}
 R^{4}
 R^{5}
 R^{5}
 R^{1}
 R^{1}
 R^{2}
 R^{1}
 R^{2}
 R^{3}
 R^{4}
 R^{1}
 R^{1}
 R^{2}
 R^{3}
 R^{4}
 R^{1}
 R^{1}

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wherein R is an alkyl group, an alkenyl group, an alkynyl group, an aryl group, or heteroaryl group; R¹ is independently -H, -OH or -O-Pg; R² is -H, -CH₃, -NH₂, or -NH-Pg; R³ is -H, -CH₃ -CH₂CONH₂, -CH₂CONH-Pg, -CH₂CH₂NH₂, or-CH₂CH₂NH-Pg; R⁵ is -OH, -OSO₃H, or -OPO₂HR^a, where R^a is hydroxy, C₁-C₆ alkyl, C₁-C₆ alkoxy, phenyl, phenoxy, p-halophenyl, p-halophenoxy, p-nitrophenoxy, benzyl,

benzyloxy, p-halobenzyl, p-halobenzyloxy, p-nitrobenzyl, or p-nitrobenzyloxy; R^6 is -H, -OH, or -OSO₃H; R^7 is -H or -CH₃; R^4 and R^8 are independently, hydrogen, or hydroxy and at least one of R^4 and R^8 is a sugar moiety of the formula

$$R^9$$
 R^9
 R^9
 R^9
 R^9
 R^9
 R^9
 R^9

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where R⁹ is independently -H, -OH, -N₃, -O-Pg, -NH₂, -NH-Pg, -OPO₂R^a, or a second sugar moiety consisting of one to three sugar units selected from the group consisting of

$$\begin{bmatrix}
R^{9b} \\
R^{9a}
\end{bmatrix}$$

$$\begin{bmatrix}
R^{9c} \\
R^{9c}
\end{bmatrix}$$

and mixtures thereof, wherein R^{9a} is -H, -OH, -N₃, -NH₂, -O-Pg, or -NH-Pg, R^{9b} is -OPO₂ R^a , -OSO₃H, -H, -NH₂, -OH, -O-Pg, or -NH-Pg, R^{9c} is -CH₃, -CH₂OH, -CH₂N₃,

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-CH₂OSO₃H, -CH₂NH-Pg, -CH₂O-Pg, -CO₂H, or -CO₂-Pg, where R^a is as defined above, and no more than one R⁹ is represented by said second sugar moiety; and each Pg is independently a protecting group; or a pharmaceutically acceptable salt, ester, hydrate, or solvate thereof.

Please add new claims 24-25:

24. (New) The compound of claim 1, wherein the Pg of -O-Pg is a hydroxy protecting group, the Pg of -NH-Pg is an amino protecting group, the Pg of -CH₂CONH-Pg is an amino protecting group and the Pg of -CO₂-Pg is a carboxy protecting group.

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24. (New) The method of claim 8 or 16, wherein the Pg of -O-Pg is a hydroxy protecting group, the Pg of -NH-Pg is an amino protecting group, the Pg of -CH₂CONH-Pg is an amino protecting group and the Pg of -CO₂-Pg is a carboxy protecting group.

In the Abstract:

Please add page 44 with the following Abstract, on a separate page following page 43.

--ABSTRACT



A compound represented by structure (I) is described where R⁴ and/or R⁸ represent a sugar moiety. The compounds are shown to be useful as an antifungal and antiparasitic agent or as an intermediate to such an agent. Methods of treatment and pharmaceutical formulations containing compounds represented by structure (I) are also described.--